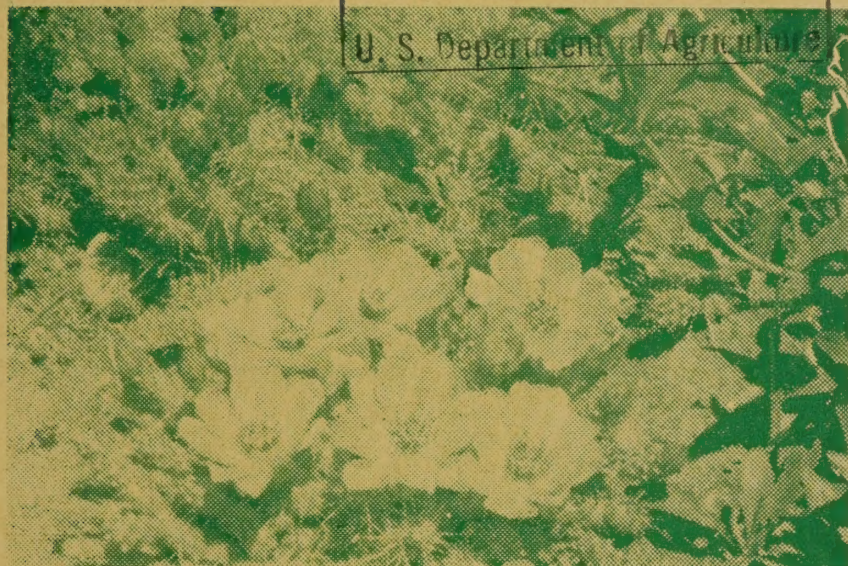
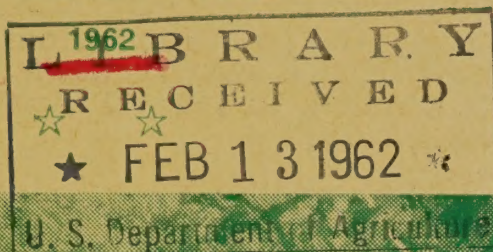


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BEAUTIFUL NATIVE PLANTS

FROM THE
HIGH PLAINS, BAD LANDS
AND BLACK HILLS



OPUNTIA FRAGILIS, the pygmy of prickly pears

Above 6000 feet in the Black Hills we found an *O. fragilis* full of pods. It had flowered freely, a rare event in the species. The photo was taken in our garden. It has proved to be a free flowering strain.

Called *fragilis* or Brittle Cactus because its barbed spines attach to fingers, clothing, shoes or to hides of animals and easily pull the new end joints away from the plant. This has become a means of wide dispersion and propagation, thus avoiding flowering and seed bearing.

We like the wide yellow flowers and it must have been a flowering *fragilis* that someone listed among the ten best rock plants.

CLAUDE A. BARR

PRAIRIE GEM RANCH

SMITHWICK, S. D.

Awarded John Robertson Memorial Medal, 1958,
by The South Dakota Horticultural Society, for
meritorious contributions to horticulture.

HABITAT AND GARDEN SUCCESS:

To grow the Great Plains plants it is important to recognize native factors of adaptation and environment. Character and faculty have been molded in these plants by untold ages of living where periods of moisture shortage are long and of moisture excess very brief.

Moisture retention devices in the plant structure have been developed to an outstanding degree to withstand shortage; to escape excess the canny plants select high places and slopes, rocky, gravelly and porous soils from which excess water readily drains away or down, thus quickly restoring aeration. In general moisture is sought, wetness avoided.

A scree mixture for replacing soils that are close textured and impervious or too rich and moisture retentive, or to counteract inescapable shade from remote trees or other objects is recommended. Equal parts of ordinary soil, coarse sand and fine gravel or rock chips, including some lime, provide an excellent base for all Great Plains plants. The needs of certain subjects for portions of richer soil may be met by adding leafmold or other humus locally in planting or in top dressing.

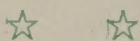
All plants listed are tolerant of lime and a few demand it. Lime in a very acceptable form and coarse drainage material, if your needs are for less than ton lots, may be had from poultry supply stores in the form of crushed oyster shells and coarse hen grit. If your rooting medium is suspected of not being lean enough for the ardent sun-lovers substitute subsoil, up to three-fourths, for soil.

SERVICE: High quality plants only are sent on your order. Our packing will please. In addition to culture suggested in this catalog special advice is offered when it may prove useful or on request. Every effort is made to get shipments out when desired. Mention of your preferred date will be appreciated and of one or two alternatives, as a few items may become exhausted.

PRICES include prepaid delivery by parcel post. Usually 3 or 12 plants can be furnished if one or "each" is priced.

SPECIAL HANDLING: In certain areas ordinary parcel post does not insure sufficiently rapid delivery for plants. But with "special handling" the parcel is handled just like first class mail. If you are more than two days from Smithwick it will be well to add 35 cents to your remittance to cover this quick service.

A SEED LIST is issued in autumn.



HERBACEOUS PERENNIALS

Achillea lanulosa A welcome little non-ramping yarrow with heads distinctly white, at 6 to 9", Travels an inch or two a year. Rare form, 50c.

Actinea simplex, now *Hymenoxys*, which see.

Aethionema pulchellum, Stone-Cress. (Turkish.) Evergreen with tiny slightly bluish leaves. Great show of rosy pink heads. 8". 50c; 3, \$1.25.

Agastache anethiodora, Anise Hyssop. Delightful fragrant tall herb. Spikes of soft lavender-blue continually, June on. Good soil, shade. 60c.

Anemone caroliniana Brave and dainty and jewel-like, inch and a half wide, blue or white, of 8 to 20 cupped petals, May. 3, 60c; 12, \$2.00.

Anemone patens Pasque Flower. Six-pointed stars of satiny lavender, March, April, ahead of the leaves, to 4" wide. Decorative seed heads. State flower of South Dakota. 85c; 3, \$2.00.

Antennaria: Pussy-toes, Ladies' Tobacco, valuable evergreen rock garden ground covers, slow spreading, very low, each with its own texture.

A. aprica Broad little leaves of silvery olive in inch high mats, pussy-toe blossoms at 4". Gray-white, clump, 40c; soft pink, 50c.

A. campestris Broader leaves, velvety deep green, underside white. Toes white or silvery. 50c.

A. microphylla Tiny bluish silver leaves, lovely pattern and texture. Toes white furry. 50c.

A. microphylla, staminate form, with apparent rays of white. 4" or less. Attractive, new. 60c.

A. obovata Like a larger aprica, gray toes. 50c.

A. oxyphylla Broadly spatulate silver leaves. 60c.

A. rosea Rare selection with toes of rich dark rose. Narrower leaved than aprica. For shade, rich soil. 75c; 3, \$2.00.

Arenaria hookeri Needle leaved cushion of rich deep green, bebies of stemless white stars, June. Tap-rooted, for scree with lime. 50c; 3, \$1.35.

Argemone intermedia, Prickly Poppy. 4" crinkled poppies of fresh white silk through summer's heat. White ribbed foliage. To 24". 50c; 3, \$1.35.

Arnica fulgens Large daisies of richest gold in patterned elegance. To 14", June. Leaves lanceolate, basal, gray. Summer dormant. 50c; 3, \$1.35.

Artemisia frigida Low, feathery, silvery, fragrant cushion sage. Arching racemes of tiny yellowish bells, to 10 or 15", August. 45c; 3, \$1.00.

Asclepias pumila Diminutive milkweed, prolific with cream-white umbels, midsummer on. 5 to 8". Decorative minute leafage. 50c; 3, \$1.20.

Aster batesi Slender arching stems to 24" or more, wreathed in closely set florets, lavender-blue and gold, September. 50c; 3, \$1.35.

Aster batesi, New, deep blue, pink, either, 65c.

Aster conspicuus Lavender-pink inch wide blossoms in profusion across the corymb-like top. 24". Mainly August. Distinct, fine. 85c.

Aster geyeri, 'Black Hills.' Very superior strain, florets to 2" wide, an unsurpassed soft blue, late fall. 30 to 40". Drought resistant. 85c each.

Aster kumleini Showy, blue to purple, gold centered, one of the finest native asters. Sheets of color at 12 to 15", September. 50c; 3, \$1.35.

Aster kumleini, 'Dream of Beauty.' Good definite pink, lavish flowering. 15". 60c; 3, \$1.50.

Aster meritus Pinkish violet in broad closely massed corymbs in July, at 8 to 12". Thrives in shade or sun. 60c; 3, \$1.50.

Aster ptarmicoides Cream centered white, beginning its long season of beauty in July. Shade or sun. 8 to 14". 50c; 3, \$1.35.

Astragali, hosts to nitrogen gathering bacteria, need moderate moisture, much sun, in limy scree.

A. barri, Red Orophaca. Charming rock garden "bun," newly distinguished from *A. tridactylus* by Dr. R. C. Barneby and named in our honor. Gray-green, covered with lavender-rose blossoms, May. 3" high, 8" or more wide. 60c; 3, \$1.50.

A. gilviflorus, White Orophaca. A snow of high bannered pea blossoms, April, May, on a silver "bun." Height 4", width to 8". 50c; 3, \$1.35.

A. goniatus Fresh lavender bonnets accented with purple above green lacy leafage, June, August. 4 to 8". Root running but fine. 60c; 3, \$1.50.

A. spatulatus Irresistable gem with massed light reflecting purple bonnets, May, early June. Faintly frosty, prickly leaves. 4". 50c; 3, \$1.35.

Callirhoe involucrata, Wine Cups, Poppy Mallow. Trailing stems to 25", deep glossy cups, intense and pleasing wine red, in long season. 50c; 3, \$1.35.

Campanula petiolata, Western Harebell. Larger and more floriferous than typical *rotundifolia*, 8 to 18". Masses of translucent blue-purple or lavender flaring bells, June and later. 50c; 3, \$1.35.

Cerastium strictum Earth hugging mat of soft deep green, multitudinous white flowers to 8", May, July. Like a larger *C. arvense*. Clump, 50c.

Chrysopsis villosa, Golden Aster. Massed beauty in richest tone, August, September. 12". For best effect shear back to 4" in June. 50c; 3, \$1.35.

Clematis scotti, Leather Flower. Intriguing nodding urns, blue to purple, in May. 8 to 10". Glaucous plant, showy seed plumes. 75c; 3, \$1.80.

C. scotti Wonderful variant in fresh clear pink. Rare find, propagated slowly. \$2.00 each.

Clematis tenuiloba Exquisite nodding, wide flaring, four-pointed stars of blue-purple all through June. 10". Narrow lobed leafage to 6 or 7". Dense ground cover, spreading slowly. \$1.00; 3, \$2.50.

Dalea aurea Novel and exotic appearing plant, silvery green and airy light yellow in Prairie Clover effect. 10 to 16". June. Scree. 60c; 3, \$1.50.

Dalea enneandra White and silver in slender swaying racemes atop slender, nearly leafless stems. June, August. 20 to 35". May be planted among choice low scree things. 50c; 3, \$1.35.

Delphinium menziesi Velvety blue or deep purple-blue, quite large flowers, May, June. 12". Sun or shade. Summer dormant. 50c; 3, \$1.35.

Dianthus brevicaulis (Turkish.) Rosy mauve little pinks, frosty mat of fine foliage, widening slowly. Thrives in dry half shade. 50c; 3, \$1.35.

Dodecatheon pulchellum (pauciflorum.) Shooting Stars. As many as 15 darting rose or lavender-rose and gold stars in the umbel, *pulchellum* brings brilliancy, delight to May. 50c; 3, \$1.35.

D. pulchellum, 'White Comet.' A pure white of perfect form and large size, with a thread of gold at petal base. 85c; 3, \$2.20.

D. pulchellum, 'Red Comet.' Largest selection and fine deep rose color. 85c each.

Drymocallis fissa Cinquelfoil cousin with plentiful five petaled butter yellow saucers, June. 10 to 12". Rich dark pinnate foliage. 50c; 3, \$1.35.

Echinacea angustifolia, Pink cone-flower. Beautiful, bold, wide rayed daisies of rosy pink, centers glossy prickly mahogany cones, July. 10 to 15". Sun loving, drought proof. 50c; 3, \$1.35.

Erigeron, allied to Aster. Commonly called daisies they are of many types and uses.

E. asper Rich lavender in a dense shaggy fringe, inch and a fourth wide, gold centered. June. 8 to 9". Summer dormant. New. 50c; 3, \$1.20.

E. flagellaris, Whiplash Daisy. A dainty delight of small white daisies, always freely borne, June and later. 4 to 8". Shallow rooted spreader. 50c.

E. 'Prairie Gem' A rare *flagellaris* selection, it is smaller, less invasive, the leaves greener and 3-lobed at the tip. Clump, 60c.

E. glabellus Inch wide daisies, light to deep lavender, several to the stem, July, August. 8 to 18". Low, glossy evergreen mats. 50c; 3, \$1.35.

E. montanensis This willing new one lends a charming touch on limy scree, beginning June. Inch wide, white, 4 to 7". 50c; 3, \$1.35.

E. scribneri Upstanding jewels of glowing white and gold, inch wide, crowded, above a dark green cushion of linear leaves. Gay, sunny scree plant. To 5". May, June. 75c; 3, \$2.00.

Eriogonum depauperatum Globular heads, white tinted rusty pink, above grayish leafage. Modest 4" subshrub, pleasing, new. 50c; 3, \$1.35.

Eriogonum flavum Charming fluffy umbels of soft yellow cover the plant in June. Beautiful all season mats of green felted leaves. 50c; 3, \$1.35.

Evolvulus nuttallianus Quaint tiny lavender morning-glories along stems of a furry gray 8", branching bushlet. Sandy or gravelly soil. 50c; 3, \$1.35.

Three little ferns: all drought resistant, loving rich soil, some shade. **Cheilanthes feei**, dark green rugose rock fern, to 5". **Pellaea atropurpurea**, 6" rock fern in deep glossy green. **Woodsia scopulina**, bright green, to 6", accepts much sun, with steady moisture. Each 50c; 1 of each, \$1.35.

Geum triflorum, Prairie Smoke. Rosetted leaves of deep green, reddish inflorescence to 12", sunburned pink petals that never open wide. Smoke-puff seed plumes. Ladies love it! 50c; 3, \$1.35.

Gutierrezia sarothrae, Golden Dome. Countless fine stems and minute vivid green leaves, dressed in sparkling gold, Sept. To 12". 50c; 3, \$1.35.

Hedeoma camporum, Perennial Pennyroyal. Trim 8" herb, flushed with lavender-pink mint type blossoms, June on. Fine fragrance. 50c; 3, \$1.20.

Hymenoxys acaulis (Actinea simplex.) Wide daisies of brilliant gold, 4 to 10" above silvered rosettes of narrow leaves, June and later. 50c; 3, \$1.35.

Iris flavissima A welcome visitor from Hungary and east, bright yellow, 5", June. 50c; 3, \$1.35.

Iris missouriensis Graceful flags of silvery blue at 12 to 16", June. Forms dense clumps of slender leaves. Free blooming. 50c; 3, \$1.35.

Lathyrus incanus, Sand Pea. Clusters of 2 to 7 large blossoms, banners purple-rose, wings white to pink, early May. 4 to 6". This one glaucous, downy. **L. ornatus**, much the same but downless, often brighter in banner. These are spreaders worth controlling. Either, 60c each; 3, \$1.50.

Lesquerella spatulata, Bladder-Pod. Bears its sun reflecting golden crucifer blossoms joyfully, May, June. 4" high, to 10" wide. For clayey limy scree. Gray evergreen rosettes. 60c; 3, \$1.45.

Leucocrinum montanum, Sand Lily. Fragrant waxy white little lilies, to 4", grassy leaves, all from crown 2" under ground. Prolific after first year. Lean soil. Summer dormant. 50c; 3, \$1.20.

Lewisia rediviva, Bitter-Root. Glorious flowers of rich carmine pink, 2" to nearly 3" wide, upon the ground. Succulent foliage disappears at blossom time to come again in fall. Lean loam or silt. Summer dryness essential. State flower of Montana. Choice Wyoming stock. 60c; 3, \$1.50.

Liatris ligulistylis, Blazing Star. 20 to 30 lovely luminous purple inch wide heads, July. Maroon bud bracts. 12 to 18" or more. 60c; 3, \$1.50.

Liatris punctata, Dwarf Gayfeather. Dense fluffy spikes of fine clear purple. 8 to 14", August. 50c.

Lithophragma parviflora, Woodland Star. Radiant stars of white in capitate raceme. 4", May, to 12" in June. Tiny tubers, small sod, 50c; 3, \$1.35.

Lithospermum incisum, Fringed Puccoon. Softly glowing yellow ruffled trumpets, May. Charming showy bushlet, to 12". 50c; 3, \$1.35.

Malvastrum coccineum, Flame Mallow. Arresting salmon-scarlet, inch wide hollyhock blossoms in short spires, long season. 5 to 8". Deeply cut grayish foliage. Lean soil, gravel. 60c; 3, \$1.50.

Mertensia lanceolata, Prairie Bluebell. In April a 2" stem bears a full cluster of pinkish buds, to open thrillingly in the first warm days, at 3". Stems branch and rebranch, with countless clusters into late June. Never above 10". 60c; 3, \$1.50.

Mirabilis multiflora, Hardy Four-o'clock. 15" high plant, spread 36" or more. Long season of lavish bloom in four-o'clock red. Large deep root, for dryish well drained ground. 60c; 3, \$1.50.

Nothocalais cuspidata Rich textured golden discs, many rayed, 2" wide, from a few white margined leaves, April, May. 2 to 6". 50c; 3, \$1.35.

Nuttallia decapetala, Evening Star. Late afternoon blooming. 4" wide flowers, cream-white with a primrose yellow brush of stamens. All summer, strikingly beautiful. 12 to 26". Well drained shaley or gravelly soil. Short lived. 50c; 3, \$1.35.

Nuttallia stricta Smaller but more permanent evening star in all cream, 2" wide. 50c; 3, \$1.35.

Oenothera caespitosa, Gumbo Lily. Great snowy, fragrant flying saucers, from glossy leaves at the ground. Open all day, May to August. 5". Recommended scree. 50c; 3, \$1.20.

Oe. lavandulaefolia Rich 2", crinkled yellow blossoms, freely, June to frost. Open most of day. To 4", spread, 8" or more. 60c; 3, \$1.50.

Oe. serrulata Lavish bearer of inch wide cups of brightest yellow, May, August. Open most of the day. Compact bushlet, to 10". 50c; 3, \$1.20.

Oe. speciosa 2 to 3" blossoms of lovely form in fine white, freely borne in the usual long season of the evening primroses. About 12". Root colonizer. Readily grown. 60c; 3, \$1.50.

Oe. speciosa The rare rose pink form, fragrant, thrillingly beautiful. Day blooming. \$1.00 each.

Oxytropis lamberti, Purple Loco. Typically red-purple, light to dark, its many 12" plumes of pea florets are spectacular, the silvery pinnate basal tufts of leaves handsome. June. 50c; 3, \$1.35.

Ox. sericea Splendid pink selection. May. 60c.

Penstemons serve many uses delightfully with varying adaptabilities. All need good drainage, the more important in climates moister than their native ranges. Sandy soil for most kinds. Evergreen basal rosettes or mats are the rule.

P. albidus Large white blossoms, June, 10 to 15". Broad lanceolate green foliage. Demands somewhat firm soil texture. 50c; 3, \$1.20.

P. angustifolius Large blossoms, exquisite form and carriage, melting deep azure, June. 12". Foliage glaucous. Often in loose sand. 50c; 3, \$1.20.

P. caespitosus Tiny broad leaves in a 2" spreading mat, liberally sprinkled with lavender-blue, June. Quite at home at Prairie Gem, dry half shade. 50c.

P. eriantherus Large lovely warm lavender with prominent tongue of gold. June, 8 to 12". Dark rough leafage. Needs some clay and lime, extreme drainage, no richness. 50c; 3, \$1.35.

P. glaber Marvelous intensity of blue, dark or lighter, to 18" or more. June, July, repeating if cut back. Plant dark green. Adaptable. 50c; 3, \$1.35.

P. glabrescens (crandalli glabrescens, but very different from crandalli.) Bushlet with upright spikes of blue, to 5". "As big a kick as any recent introduction," (Stuart Boothman.) 60c; 3, \$1.50.

P. grandiflorus Very large flowered, cool deep lavender, with glaucous broad leaves. 30 to 40". June. Not for wet climates. 55c; 3, \$1.40.

P. linarioides coloradoensis Fine textured silvery ground cover, silvery lavender bloom, easily grown. To 6 or 7". 60c each.

P. nitidus Earliest to bloom, brilliant caerulean, large flowered. Plant glaucous. Especially choice dwarf form, 8 to 12". May. 55c; 3, \$1.45.

P. procumbens (crandalli procumbens, but very different from crandalli.) Lovely mat former, 2" high, bright blue flowered. Extra vivid winter green. Sun or half shade. 60c; 3, \$1.50.

P. virens Lavish production in deep purple-blue. Usually 10". Permanent evergreen mat. 50c; 3, \$1.25.

Petalostemon oligophyllus, Prairie Clover. White circlets in gay mood on green cones. June, 10". Small dark leaflets, airy habit. 50c; 3, \$1.35.

Petalostemon purpureus Circlets of orange anthered purple-red on slender deep green thimbles. June, July, 14". Scree or sand. 50c; 3, \$1.35.

Petalostemon villosus Silvered velvety plant, silvery lavender-rose fingers, all very lovely. July, August. Arching, mostly under 12". 50c; 3, \$1.35.

Phloxes of the Great Plains delight in a scree of dominantly clay content and a bit of richness. Give half shade and keep cool until established, then more sun.

P. alyssifolia abdita (Dr. E. T. Wherry's new classification of the larger flowered form.) Lavender-pink, inch wide, full lobed, fragrant. To 4". May, June. Slow mat maker. 75c; 3, \$1.80.

P. alyssifolia, select cream-white. 60c; 3, \$1.50.

P. andicola Large full lobed white, needle leaved phlox of the high prairies, forming colonies or mats. 4". May, June, any soil. 50c; 3, \$1.35.

P. andicola, a fine rare lavender. 65c; 3, \$1.50.

P. andicola, very rare beautiful powder blue. 75c.

P. andicola parvula, 'Dr. Wherry.' So named in high respect as botanist and friend. Outstanding selection, wide overlapping petals, glowing white. In size between hoodi and andicola. \$1.00 each.

P. hoodi Mossy green mats, slow spreading, finally wide. Snowed over with lovely little blossoms in April and May. Selected forms, 65c; 3, \$1.50.

P. longifolia Fine clear white form of this handsome 6" upright species. Leaves linear, dark. 60c.

P. pilosa Clusters at 5 to 10", lovely lavender-red. Color selected in eastern South Dakota. 75c each.

Potentilla divisa A double handful of pirate's gold among silvered deep cut leaves, early May. 3", with spread to 10". Scree or rocks. 60c; 3, \$1.65.

Ruellia ciliosa Inch and a half petunia in glowing lavender, catching everyone's eye. 8 to 12". Fresh every day all summer. 50c; 3, \$1.35.

Salvia pitcheri Fall blooming border perennial in a striking deep blue. To 40". Forms a handsome many stemmed plant. New to our lists. 60c; 3, \$1.50.

Senecio purshianus Rock plant with all season gray foliage tufts, 2" high, displaying in June airy paniced golden daisies at 8". 50c; 3, \$1.20.

Sideranthus spinulosus massed inch wide asters of glinting gold, at 4", September. The type has frosty, fine textured, pungent foliage, branches densely. Poor soil, hot sun. 60c; 3, \$1.50.

Sisyrinchium angustifolium, Blue-eyed Grass. Neat clumps of erect narrow leaves, profusion of six-pointed violet stars, 6 to 8". 40c; 3, \$1.10.

Sisyrinchium campestre A charming white grass-flower, to 6", blossoming freely. 60c; 3, \$1.50. The "sisys" respond well to good soil and care.

Solidago glaberrima, Smooth Goldenrod. Beautiful broad nodding tipped panicles, August. Choice dwarf form, to 12". Moderate traveler. 50c.

S. mollis Especially rich billowy heads, September, 4 to 12". Gray-green. Slow traveler. 50c.

S. pallida Lovely, fragrant, luminous light golden plumes, September, 16 to 18". Broad glossy basal leaves, non-spreading clump habit. 60c; 3, \$1.50.

S. pulcherrima September beauty in plump tapering rods. 14". Clump habit, non-spreading. 60c.

S. wardi. Flat topped heads at 28 or 30", valuable non-spreading border plant. New. 60c; 3, \$1.50.

Thalictrum venulosum, Dwarf Meadow Rue. Very attractive mounds of dense faintly bluish foliage, to 6" or so. Negligible bronzy bloom to 20". Colony forming, not rampant. 50c; 3, \$1.35.

Thermopsis rhombifolia, Dwarf Golden Pea. 8 to 12". Broad packed racemes of glowing medium yellow, May. Unusual, beautiful colonizer. 50c.

Townsendia exscapa, Easter Daisy. Astonishingly large pink daisies upon a tuffet of evergreen leaves, all under 2". Lean scree. 50c; 3, \$1.35.

Townsendia hookeri (long known as *sericea*.) One of the Plains' first responses to spring. Gems of white daisies on tufts of ashy green, early April. 2" high to 4" wide. Limy scree. 50c; 3, \$1.35.

Tradescantia bracteata, Rainbow Spiderwort. Of many colors and tints. Breaks into bloom in June at 4", continues in long season to 10". Selections in bright rose, purple, each 40c; appleblossom pink, fine white, each 50c; Mixed, doz. \$3.00.

Viola adunca A smiling quizzical little old man in deep blue. Part shade. Often blooms again in autumn. Appreciates good soil. 50c; 3, \$1.20.

Viola blanda Endearing pure white with mild sweet violet fragrance. 50c; 3, \$1.20.

Viola jooi A fine large pinkish toned violet from S. E. Europe. Showy, prolific. 50c; 3, \$1.35.

Viola nuttalli Brilliant golden violet of the dry sunny plains. Heavy producer, April, May. 2 to 6". Summer dormant. 50c; 3, \$1.00.

Viola rugulosa White, tinted pink, with violet pencillings. Long season, 4 to 12". Short stolons build a dense ground cover. Clump, 45c; 3, \$1.20.

Yucca glauca Bayonet-like leaves to 18"; 30" or taller spires, occasionally branched, of nodding lilies, usually greenish cream, July. 85c; 3, \$2.25.

BULBS FOR FALL PLANTING

Allium cernuum, Nodding Onion. Umbels of light shell pink, July, 8 to 16". 3, 45c; doz., \$1.50.

A. flavum minor Very attractive foreigner in soft yellow. To 8". 3, 45c; doz., \$1.20.

A. geyeri Very pink heads at 4", mountain top, to 20" in lush meadow. 3, 50c; doz., \$1.50.

A. perdulce (*nuttalli*) Sand Onion. Pretty new one, red as a two cent stamp, pleasantly fragrant, early. To 4". 3, 50c; doz., \$1.50.

A. sphaerocephalum To 24" or more, with ball-like heads of deep maroon. 3, 45c; doz., \$1.20.

A. textile Broad upright umbels of green ribbed white, 5 to 8", May. Summer dormant. 3, 45c.

Androstephium caeruleum, Blue Bethlehem Star. Wide umbels of soft blue, 4 to 6", May. Few dark green grassy leaves. 30c; 3, 75c; doz., \$2.60.

Calochortus gunnisoni Mountain Mariposa. Lovely white chalice, clusters of greenish hairs at base. July, 15". Grassy leaves. 3, 50c; doz., \$1.50.

C. nuttalli, Sego Lily, Mariposa Tulip. Shining white, marked gold and maroon at base. June, 12". Glaucous grassy leaves. 3, 50c; doz., \$1.50.

Camassia esculenta (or *scillioides*?) Deep lavender-blue or light blue stars in closely set spire, flecked with golden anthers. Lovely, May. 12 to 30". Kansas form. 35c; 3, \$1.00.

Erythronium mesochorium, Prairie Erythronium. Rare member of a charming group of Maytime bulbs. Lavender tinted white stars, segments recurved. Free flowering. 3, 60c; doz., \$2.20.

Lilium umbellatum True species, resembling *L. philadelphicum*. One to three up-facing orange-red cups, 4" wide, June, July. 10 to 16". Lime tolerant. 4" deep, good soil, well drained. Cool or much shade. Blooming size, 60c; 3, \$1.50.

Nemastylis acuta, Prairie Irid. Like a giant blue-eyed grass flower in clear light gentian blue, an inch to nearly two wide. 4 to 6". Stiff upright pleated leaves. 35c; 3, \$1.00; doz., \$3.00.

Tulipa sylvestris (Europe.) Scintillating golden stars at 9 or 10", with a delicate air. Spreading slowly by stolons. 3, 45c; doz., \$1.50.

Zygadenus elegans, False Camas. Spire-like panicles of whitish stars, yellow spotted at base, 18", July. Prefers some shade. 3, 60c; doz., \$2.00.

Zygadenus gramineus Counterpart of *Camassia* in cream and gold. 10 to 16", June. Usual basal grass-like leaves. 3, 50c; doz., \$1.50.

FOR GARDENS IN HALF SHADE and moderately rich soil, well drained, the following are especially recommended: *Achillea*, *Agastache*, *Allium cernuum*, *Anemone patens*; *Antennarias campestris*, *microphylla*, *oxyphylla*, *rosea*; *Arnica fulgens*, *Asters conspicuus*, *geyeri*, *meritus* and *ptarmicoides*; *Campanula*, *Cerastium*, the *Clematisses*, *Delphinium*, *Dodecatheon*; *Erigerons asper*, *flagellaris* and *Prairie Gem*, *glabellus*, the *Ferns*; *Geum*, *Liatris ligulistylis*, *Lilium*, *Lithophragma*; *Penstemons caespitosus*, *coloradoensis*, *procumbens* and *virens*, *Solidago pallida*, *Thalictrum*; *Calochortus gunnisoni*, *Zygadenus elegans*, the *Violets* except *nuttalli*. With adequate moisture, however, sun is equally agreeable to this list.

COLD CLIMATE CACTI

Cactus culture: Cacti adapted to cold naturally reduce their moisture content and shrivel on the approach of winter. An ample depth, 12" or less, of 9 parts gravel and sand to 1 of good loam supports lavish bloom and assures essential winter dryness. Lime is important to cacti.

Coryphantha vivipara Ball, to 3" or more, showy carmine flowers on top, June. 35c; 3, 90c.

Echinocereus triglochidiatus Small barrel, handsome spine pattern, flowers of intense deep scarlet. To 5" or more, forming clumps. 65c each.

E. triglochidiatus inermis Similar but spineless. Very rare, stock limited. 95c each.

E. viridiflorus Glossy greenish yellow blossoms on the ribs, June. To 4 or 5". 35c; 3, 90c.

Neobesseya missouriensis Ball, to 2" or wider. Blossom yellow or pale orange, May. 35c; 3, 90c.

Opuntia aurea Almost spineless prickly pear with wonderfully rich yellow flowers. 50c; 3, \$1.35.

O. fragilis, Brittle Cactus. 1 to 1½" joints, to 3" high. Large yellow flowers, June. 50c; 3, \$1.35. Pictured on cover.

O. humifusa Pads to 4 or 5". Selection with very large red centered yellow blossoms, June. Ripe pears dark red, showy, edible. 50c; 3, \$1.35.

O. imbricata, Tree Cactus. Cholla type, ribbed cylindrical joints. To 48" or more, blooms at 24" or so. Carmine, July. Rooted joints, 50c; 3, \$1.20.

O. polyacantha Many spined prickly pear, pads 4" or more, 4" crystal-like blooms, May. Select pure lemon, fine rich orange, wonderful deep carmine, each 50c; 3 of a color, \$1.20. New chartreuse with apple green base, 60c; 1 each of 4 colors, \$1.60.

O. rutila Narrow smallish pads, rapid growth, 2" carmine blossoms in profusion. 40c; 3, \$1.10.

O. whipplei Spiny little cholla from high country of Arizona. Densely branching, upright. Small yellow flower. Hardy, four winters. 75c each.

O. 'Apache' Villainously spiny, new spines reddish, erect like hair standing on end. Occasional blossoms, carmine. (Rutila hyb?) 50c; 3, \$1.35.

O. 'Smithwick' (humifusa X fragilis.) Twice the size of fragilis, free blooming, bright yellow. 40c.

Cactus collection: 1 each of above 17 descriptions, \$8.80 value for \$7.50.

SHRUBS

Amorpha canescens, Lead Plant. Low, gray, velvety plant with orange dotted purple fingers of bloom, June, July. 12 to 25". 85c; 3, \$2.00.

Amorpha nana Very rare 10" shrub with dainty green leaves, dark purple fingers with orange anthers, neat, attractive. \$1.00 each.

Artemisia cana, Gray Sage. Rather stiffly erect, 18 to 36". 1½" lance-linear leaves. 75c; 3, \$1.65.

Artemisia filifolia, Sand Sage. Beautiful, silvery, fine textured, much branched, delightfully fragrant. Commonly to 24". \$1.00; 3, \$2.50.

Artemisia tridentata, Sagebrush. Tiny blue-silvery threetipped leaves, erect bushy plant. Pungent fragrance. Local form, to 40". \$1.00; 3, \$2.50.

Atriplex canescens, Salt Bush. Densely branched wide all gray-green bush, to 24". Conspicuous seed wings. Nearly evergreen. 85c; 3, \$2.00.

Cercocarpus montanus, Mountain Mahogany. Little slightly grayish toothed leaves, novel greenish blossoms, silky seed tassels. Pleasing alone or grouped. Erect to arching, to 8 ft. \$1.00; 3, \$2.50.

Chrysothamnus graveolens, Rabbit Brush. Broad 30 to 40" bush, covered with goldenrod-like bloom, September. Spectacular effect. 85c; 3, \$2.00.

Eurotia lanata, Winter-Fat. Holds its light gray color well into winter, adding seed tufts of white in autumn. 12 to 20". 85c; 3, \$2.00.

Physocarpus monogyna, Dwarf Ninebark. 24 to 30". Suggests Spirea vanhouttei, with larger umbels. Graceful, drought resistant. 85c.

Prunus melanocarpa, Choke Cherry. Extra large fruited selection. Mild to eat, marvelous flavor in jelly or juice. Striking in fruit, charming in thick fingers of creamy flowers in May. Usually 10 to 15 ft. 24 to 30", \$1.00; 3, \$2.50.

Rhus trilobata, Squaw Sumach. Small three-lobed deep green leaves, densely branching bush, marvelous fall color. Finest dry location hedge plant. 85c; 3, \$1.80; doz., \$5.00.

Rosa arkansana, 'J. W. Fargo.' Native tetraploid of 40 petals, delightful wild rose pink, showing a golden center. Cluster flowering, mainly July. Much branched. 10 to 20". \$1.00; 3, \$2.50.

Rosa foliolosa Refreshing 1½" pure white single. Small shining leaflets. To 10". \$1.00; 3, \$2.50.

Spiraea lucida Neat shining foliage, umbels of creamy fluff. Black Hills form, rarely above 10". Repeat blooming. 85c; 3, \$2.00.

